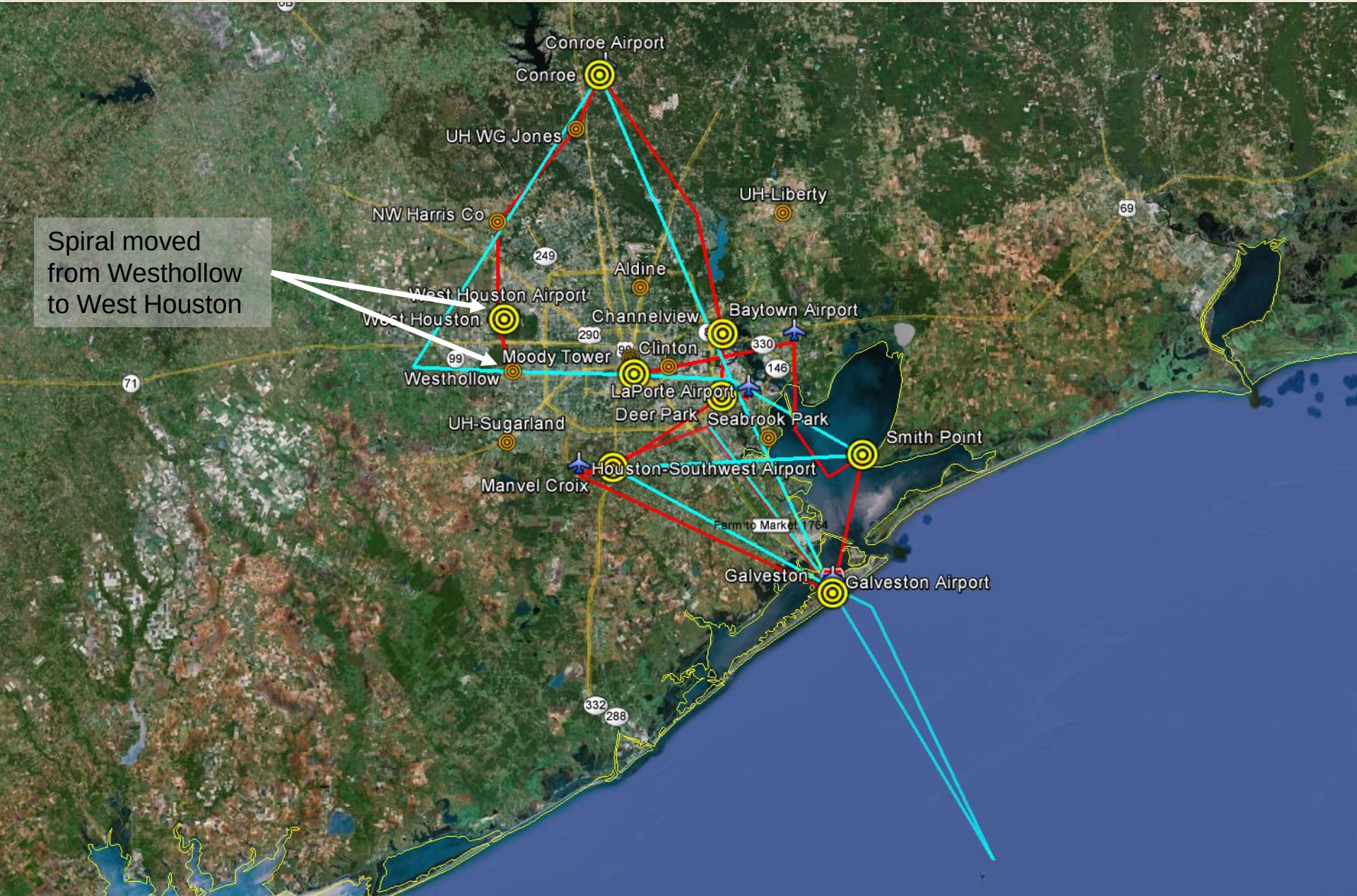
Webex Agenda, 16 May 2013

1. Houston Deployment Plans and Update
2. Publications
3. California data

Observing Strategy for Houston



DISCOVER-AQ

Ground Site Plans

Updates from last telecon are shown in red

Site Name	Spiral Y/N	Pandora Y/N	Aeronet Y/N	Missed Approach	Mobile Hook-up	other DISCOVER-AQ Augmentation
Channelview	Y	Y	Y	N	Y	
Clinton	N	Y	Y	N	N	
Conroe (Airport)	Y	Y	Y	Y	Y	U. Texas – aerosols and NO2
Deer Park	Y	Y	Y	N	N	
Galveston	Y	Y	Y	Y	Y	NOAA Trace gases
LaPorte Airport	N	N	N	Y	Y	EPA Trailer, NOAA Ozone Lidar
Texas Avenue	N	Y	Y	N	N	EPA NO2
Manvel Croix	Y	Y	Y	N	Y	NOAA NO2, Baylor/Rice –neph and hi-vol samplers, NASA Ozone Lidar
Moody Tower	Y	Y(2)	Y	N	N	
NW Harris Co	N	Y	Y	N	N	
Seabrook Park	N	Y	Y	N	N	EPA NO2
Smith Point	Y	Y(2)	Y	N	N	NATIVE, Millersville, UMBC, EPA-NO2, TCEQ Profiler, NOAA radiation
UH Liberty	N	N	Y	N	N	
UH Sugarland	N	N	Y	N	N	
West Houston	Y	Y	Y	N	N	
Baytown Airport	N	N	N	TBD	N	Possible missed approach enroute from Smith Point to Moody Tower
Houston SW Airport	N	N	N	TBD	N	Possible missed approach (8 km west of Manvel Croix)
West Houston Airport	N	N	N	TBD	N	Possible missed approach enroute from Westhollow to NW Harris Co

- *Current requirements have been determined and necessary work defined*
- *LaPorte Airport needs a few more details about the ozone lidar*
- *Moving forward is subject to approval of access agreements*
- *No new work being considered at this time (can pass requirements to Jim and Mary)*

Overlap with SEAC^{4}RS

SEAC^{4}RS is still hoping to base in Houston… don't ask

This would reduce, but not eliminate, the strain on groups working both projects listed in the table below. Please let me know if there are others.

Investigator	Measurement/Role	New Instrument?
Diskin	DACOM and DLH	Yes for DACOM
Anderson	LARGE (aerosols)	No spares
Cohen	TD-LIF (NO_2 and reactive nitrogen)	Upgrades to an older instrument
Fried	DFGAS (CH_2O)	Modifications to an existing instrument
Wisthaler	PTR-MS	
Beyersdorf/Yang	AVOCET (CO_2)	
Ferrare	HSRL (DAQ) / ER-2 lead (SEAC^{4}RS)	

Overlap with SEAC^{4}RS

Logistical Issues and Possible Efficiencies:

Travel – There will be two WBS accounts for civil servants and two tasks for contractors/grantees. You will need to be specific with Diane Zeimet regarding which project you are travelling under. Sometimes it may get a little messy, but teams should consider splitting their travel by personnel even if there is some overlap in duties.

The 30-day rule will need to be considered by those working both projects.

Badging – All badging requests for personnel in groups associated with both SEAC4RS and DISCOVER-AQ will be handled by ESPO. We will handle all requests for groups specific to DISCOVER-AQ only. Once we have all of your information compiled, we will remind you of who you need to coordinate with for badging needs.

Overlap with SEAC^{4}RS

Science considerations (these are no longer a factor in the basing decision, but other ideas are welcome):

1. UV DIAL ozone observations over Houston: 30-45 minutes at the end of a flight

2. Remote sensing validation/ACE observing strategies: Overflight of ER-2 remote sensing payload under appropriate circumstances (e.g., long range transport of dust or smoke) similar to PODEX overflights in California

3. Direct support of SEAC^{4}RS with P-3B: Subject to DISCOVER-AQ priorities, but 10 flights over Houston could be accomplished alongside a couple of additional sorties in support of SEAC^{4}RS.

P-3B Payload Upgrades for Houston

Additions to the payload have been identified:

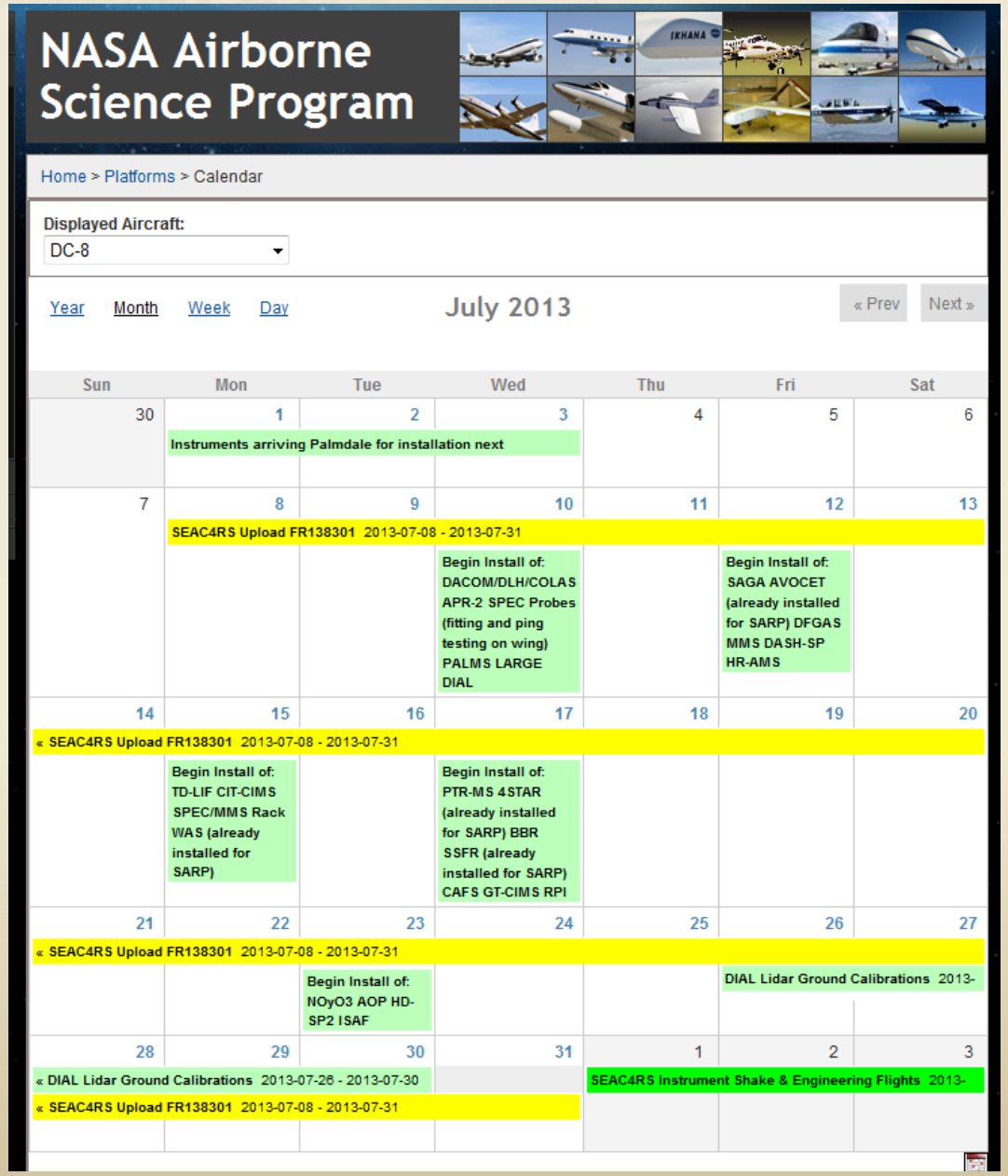
CAR (Charles Gatebe, UMBC) - located in nose of aircraft, rack next to UND
(no longer able to participate)

SO2 (John Holloway, NOAA) – we would have to supply an operator (NH3 rack)

Picarro CH4 (Melissa Yang) – added to AVOCET rack

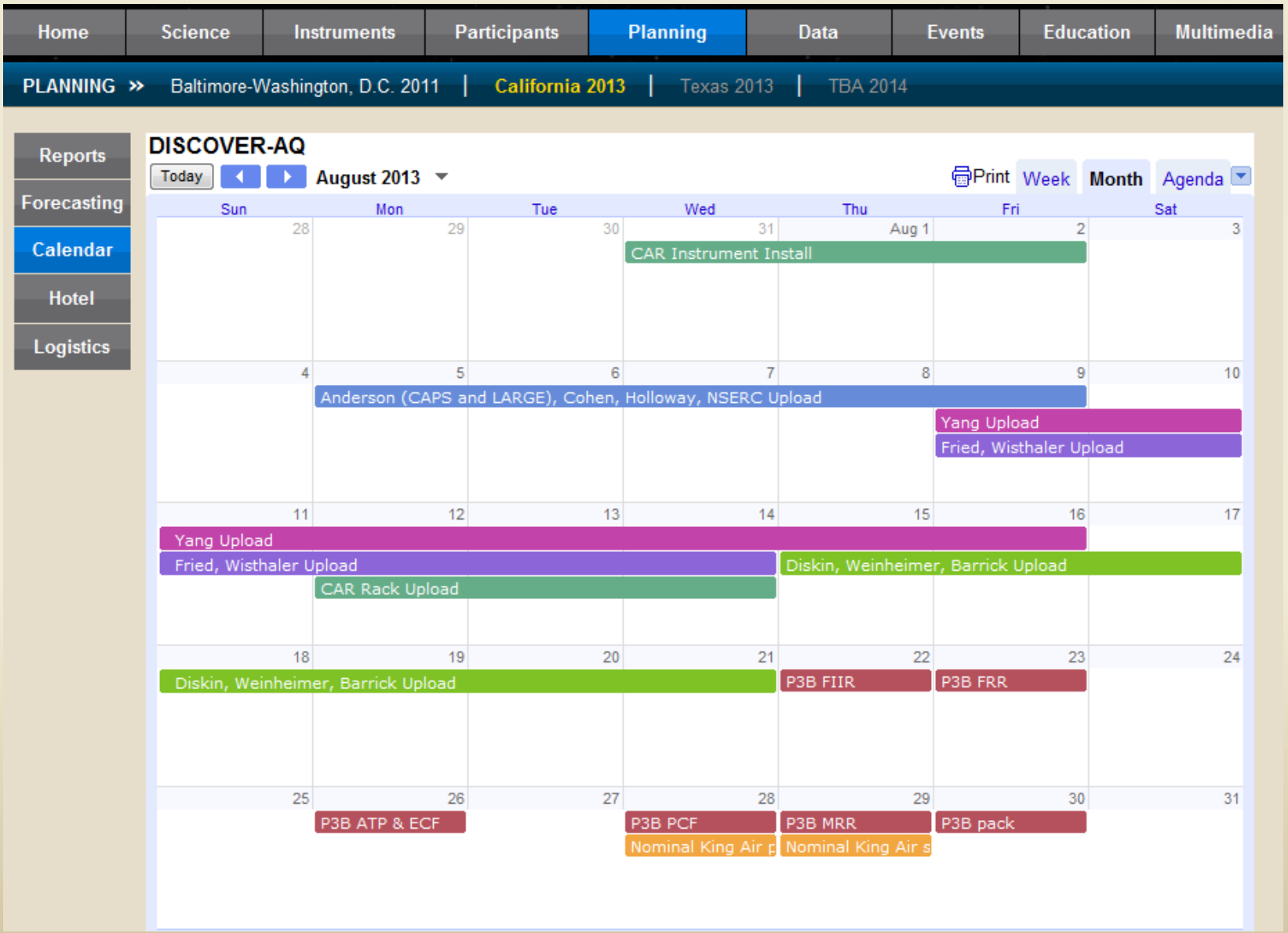
DC-8 Integration Schedule

http://airbornescience.nasa.gov/aircraft_detailed_cal/2013-07?aircraft_id=3



- AVOCET – Already installed
- DACOM – 10 July
- LARGE – 10 July
- DFGAS – 12 July
- TD-LIF – 15 July
- PTR-MS – 17 July
- Test flights begin – 1 August
- Deploy – 8 August

P-3B Integration Schedule



Accommodations during P-3B Integration and Download

Tourist season will still be in effect during P-3B integration making it difficult to obtain accommodations within the allowance.

The Wallops Lodging Facility has 9 rooms available throughout the integration and download periods for less than half the cost of a room in Chincoteague. These rooms are available to everyone except foreign nationals, who are required to live off base.

Reservations need to be made quickly to reserve these rooms. Please contact Debbie Toth at 757-824-1697 to make you reservation and identify yourself with the DISCOVER-AQ project.

Accommodations in Houston

We have secured a room block at the Homewood Suites at well below the per diem rate ($99 per night versus $109 per diem).

You should begin making your reservations now and identify yourself with the NASA DISCOVER-AQ project.

For those of you participating in both SEAC^{4}RS and DISCOVER-AQ you may succeed in getting the lower rate for your entire stay, but it is not guaranteed.

If you are working on SEAC^{4}RS only, we prefer that you not request to be part of the room block or seek accommodation elsewhere since we would like to preserve this preferred rate for DISCOVER-AQ.

Accommodations in Houston

Homewood Suites by Hilton-Houston Clear Lake **Phone: 281-486-7677**
401 Bay Area Blvd., Houston, Texas 77058
Arrival Date: September 2, 2013 / Departure Date: October 1, 2013

Number of Rooms: 40

Room Type and Rate: One Bedroom Suite with a king bed @ $99.00 per night plus tax (Note: All suites include a sofa sleeper in the living area.) Room rates are quoted exclusive of local taxes and fees, currently 17%. If you are tax exempt, then each guest will be asked to sign federal tax exemption form at check in. **(Federal employees, please do this!!!!!)**

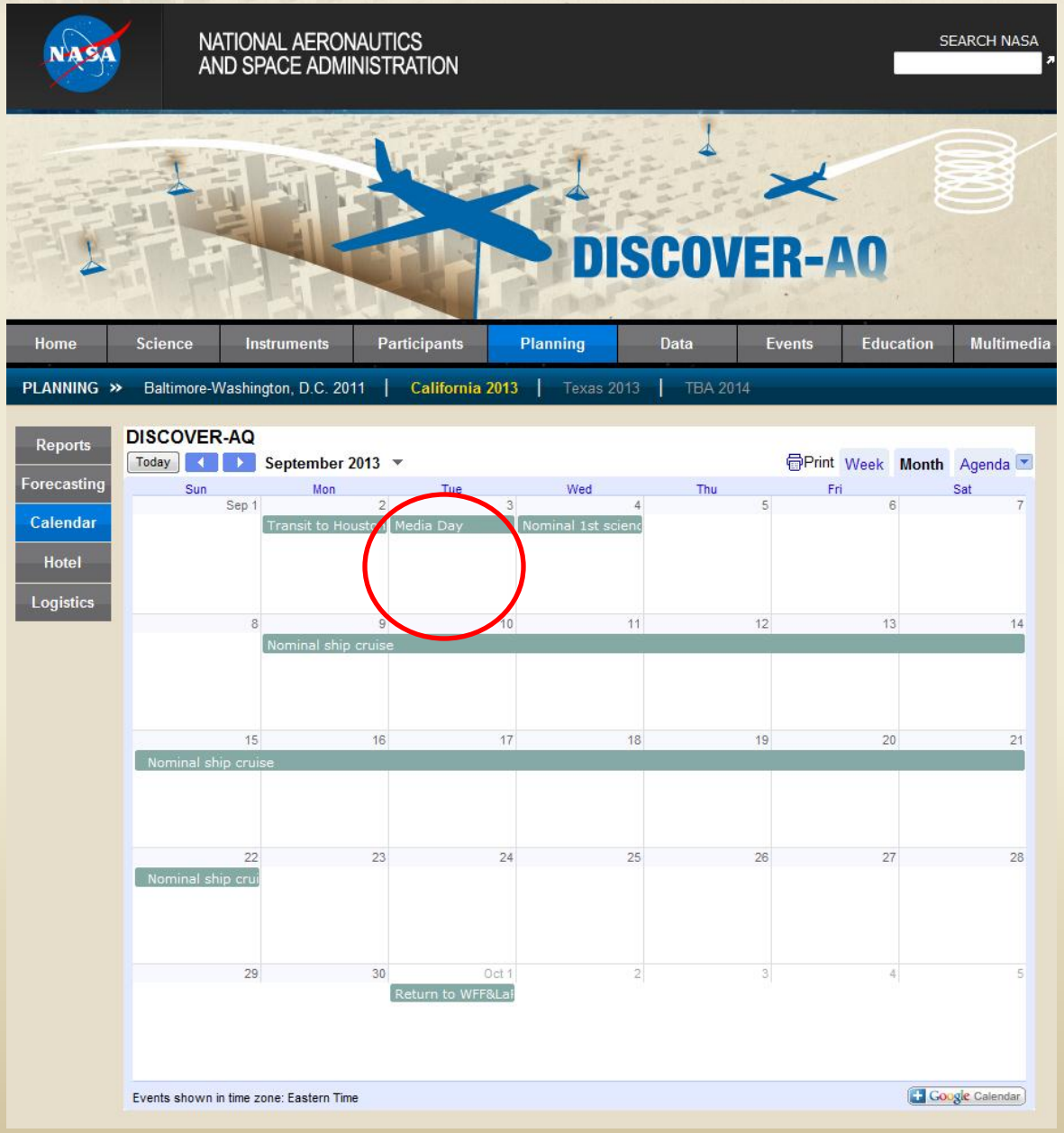
Reservations/Payment:
To make a reservation, please call the hotel directly and ask for the NASA Discover-AQ room block. All reservations are required to be guaranteed with a credit card.

Cancellation Policy:
The room block will be released on August 18, 2013 and rooms at the above rate will be available on a rate and space basis. If it becomes necessary to cancel an individual reservation, to avoid a one night's charge of room and tax the reservation must be cancelled 6 pm 24 hours prior to the arrival date.

CHECK-IN/CHECK-OUT:
Check in time is 3:00pm and check out time is 12:00 noon.

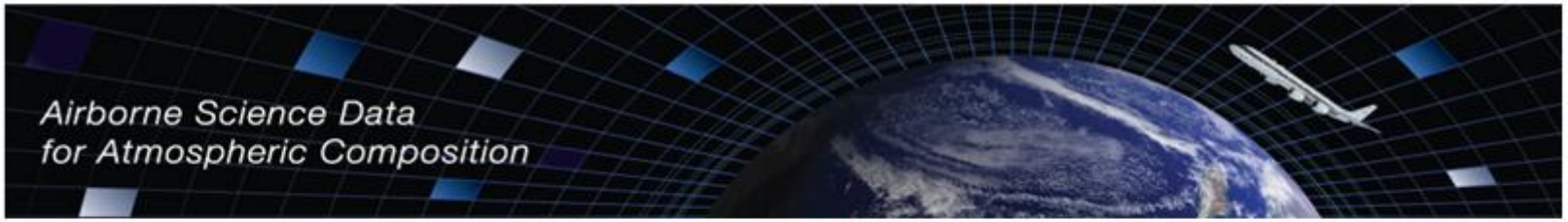
Joan Medland | Director of Sales | Homewood Suites by Hilton-Houston Clear Lake | 401 Bay Area Blvd., Houston, Texas 77058 | P: 281-486-7677 | Fax: 281-486-1665

Houston Deployment Schedule



- Unlike California, we will not need to introduce margin into the schedule for fog. Therefore, we have a much firmer schedule.
- 2 Sep - Transit to Houston
- 3 Sep - Media Day
- 4 Sep - First possible science flight
- 1 Oct - Return to WFF
- The rest of the calendar will be constructed around these key dates.

Other Planned Publications



DISCOVER-AQ

Deriving Information on Surface Conditions from COlumn and VERtically Resolved Observations Relevant to Air Quality

Baltimore-Washington, D.C. 2011 | California 2013 | Texas 2013 | TBD 2014

- Data Archive: DISCOVER-AQ ArcView
- Interactive Flight Tracks & Time / Profile Data Plotter UPDATED!
- P3-B Profile Summaries - Percentiles Plots
- P3-B Merged Data: Extract / Download one or more variables UPDATED!
- P3-B Aircraft Forward / Nadir Videos NEW!
- PODEX Datasets Links NEW!
- Submitted and Planned Publications NEW!
- Reports: Outlook / Flight / Status / QuickLook
- Flight Profile Summary
- Flight / Profile Times: P3-B / B200

Recent Activities

- DISCOVER-AQ Team Meetings / Presentations / Telecons UPDATED!
- California Site Survey Report (16-19 July 2012)

Flight Tracks: NASA P3B, B200

P3-B » Click here to download *.KMZ file (ALL Flights)*

B200 » Click here to download *.KMZ file (ALL Flights)*

Other Planned Publications

Airborne Science Data for Atmospheric Composition

Submitted & Planned Publications

A. Manuscripts Submitted to *Journal of Atmospheric Chemistry*

Processes Impacting NEar-Surface Atmospheric Pollutants (PINESAP):

1. Nocturnal isoprene declines in a semi-urban environment , *David Doughty* , Final decision accept
2. Bay Breeze Influence on Surface Ozone at Edgewood, MD During July 2011 , *Ryan Michael Stauffer* , Final decision accept
3. Estimating surface NO2 and SO2 mixing ratios from fast-response total column observations and potential application to geostationary missions , *Travis Knepp* , Editor Assigned
4. Chemical composition and concentration of particulate matter and volatile organic compounds during a bus strike in Ottawa, Canada , *Jose D Fuentes* , Revise
5. Processes controlling the vertical distribution of biogenic hydrocarbons and oxidants within a mixed deciduous forest , *Wai-Yin Stephen Chan* , Revise
6. Modeling the fate of biogenic volatile organic compounds, their reaction products, and oxidants in a forest canopy , *Wai-Yin Stephen Chan* , Revise
7. Evaluation of NAQFC Model Performance in Forecasting Surface Ozone during the 2011 DISCOVER-AQ Campaign , *Gregory George Garner* , Final decision accept
8. Ozone Correlations Between Upper Air Partial Columns and the Near-Surface at Two Mid-Atlantic Sites during the DISCOVER-AQ Campaign in July 2011 , *Douglas K. Martins* , Under review
9. Effects of Local Meteorology and Aerosols on Ozone and Nitrogen Dioxide Retrievals from OMI and Pandora Spectrometers in Maryland, USA during DISCOVER-AQ 2011 , *Andra Jenn Reed* , Final decision accept
10. Bay Breeze Climatology at Two Sites along the Chesapeake Bay from 1986-2010: Implications for Surface Ozone , *Ryan Michael Stauffer* , Under review
11. Spatial and temporal variability of ozone and nitrogen dioxide over a major urban estuarine ecosystem , *Maria Tzortziou* , Final decision accept
12. Ozonesondes Climatology and Satellite Product Evaluation: Tropospheric Ozone in the Mid-Atlantic U.S. from 2005-2010 , *Caroline P. Normile* , Under review
13. Ozone Profiles in the Baltimore-Washington Region (2006-2011): Satellite Comparisons and DISCOVER-AQ Observations , *Anne M Thompson* , Revise

B. Planned Manuscripts

1. Evaluation of Extinction Profiles and Aerosol Optical Depth from Multisensor Data in the Baltimore-Washington

Data Deadline for California – 15 June

WISTHALER.ARMIN/

Filename	Submitted/Updated	Size (KB)
discoveraq-PTRTOF-calculated-Formic-Acid_P3B_20130116_R0.ict	Apr 30 10:54	1430.6
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discoveraq-PTRTOF-calculated-Formic-Acid_P3B_20130121_R0.ict	Apr 30 10:56	1480.3
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discoveraq-PTRTOF-calculated-Formic-Acid_P3B_20130201_R0.ict	Apr 30 10:58	1354.4
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